



## 3Gb ExpressSAS Host Adapter Release v1.25 - Windows®

### 1. General Release Information

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These product release notes define the new features, changes, known issues and release details that apply to the ExpressSAS Host Adapter products v1.25 that was released on 06/30/10. This information pertains to the Microsoft® Windows OS including Windows 7, XP, Vista, Server 2003, and Server 2008 for x86 and x64 platforms.

### 2. Changes

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- **Version 1.25 (Released 06/30/10)**
  - **Note:** It is recommended that firmware dated 06/23/10 be utilized with this driver release.
  - The following apply to changes made from v1.16 to v1.25
  - **New Features, Enhancements and Changes**
    - Controller reset enhancement regarding task management failures.
    - The discovery process has been improved to recover commands that time out.
    - Initial discovery process modified to halt and allow driver loading to continue when the Device Wait Time is exhausted. Any pending discovery will resume when driver loading completes.
    - CSMI reporting improvement. Unknown port ID for a PHY that is down, or is not the lowest PHY in a wide port, are now reported, in lieu of the PHY ID.
    - Improved controller reset stability concerning resets due to the heartbeat.
    - Added support for atinfo to display attached devices, such as a targets serial number.
- **Version 1.16 (Released 10/29/09)**
  - **Note:** It is recommended that firmware dated 10/22/09 be utilized with this driver release.
  - The following apply to changes made in v1.16
  - **New Features, Enhancements and Changes**
    - CSMI support added.
    - Descriptive strings for sense keys to SCSI error event logging added.
    - Improved task management commands for enhanced recovery processing.
    - Aborts are escalated to target resets for SATA devices.
    - Enhanced expander discovery commands.
    - Improved device wait count setting when handling power cycle devices.
    - SMP API direct attached target discovery report enhanced.
- **Version 1.15 (Released 07/31/09)**
  - **Note:** It is recommended that firmware dated 07/27/09 be utilized with this driver release.
  - The following apply to changes made in v1.15
  - **New Features, Enhancements and Changes**
    - Documented support for Windows 7.
    - Enhanced event logging.
    - Added direct attached device discovery to the SMP API.

- When a discovery completes, devices that are still present are reported to the OS and I/O resumes immediately.
  - The heartbeat will only be active when I/O is not in progress.
  
- **Version 1.14 (Released 4/30/2009)**
  - **Note:** It is recommended that firmware dated 04/24/09 be utilized with this driver release.
  - The following apply to changes made from v1.13 to v1.14
  - **New Features, Enhancements and Changes**
    - SATA NCQ is disabled in NVRAM by default
    - OEM Specific registry setting for drives with sector sizes between 513 and 767 bytes
  
- **Version 1.13 (Released 1/30/2009)**
  - **Note:** It is recommended that firmware dated 01/26/09 be utilized with this driver release.
  - The following apply to changes made from v1.12 to v1.13
  - **New Features, Enhancements and Changes**
    - Resolved an issue regarding the HBA not coming up at full speed under PCI Express 2.0. The problem occurred when using a specific Intel chipset, the MCH 5400
  
- **Version 1.12 (Released 11/18/2008)**
  - **Note:** It is recommended that firmware dated 2008\_11\_18 be utilized with this driver release.
  - The following apply to changes made from v1.10 to v1.12
  - **New Features, Enhancements and Changes**
    - Implemented support to disable SATA NCQ
    - Implemented support to disable target ID assignment based on SAS address
    - Implemented support for the H3RO
    - Improve discovery processing to ensure discovery is retried when the firmware returns a partial topology
    - In firmware version 2.01 and later, verified the length of writes to correct an issue with ATAPI devices
    - Implemented support to disable target ID assignment based on SAS address
    - Resolved an issue where event log entries during the initial driver load and adapter initialization would always have an adapter number of one
  
- **Version 1.10 (Released 5/14/2008)**
  - **Note:** It is recommended that firmware dated 2008\_05\_09 be utilized with this driver release.
  - The following apply to changes made from v1.00 to v1.10
  - **New Features, Enhancements and Changes**
    - Added support for ExpressSAS H30F: With this release, ATTO has released an ExpressSAS H30F Host Adapter model with 16 internal mini-SAS ports for increased connectivity.
    - Added full support for Server 2008
    - Support added for ExpressSAS H30F
    - Initialization enhancements incorporated to support transport firmware updates
    - Improved power management functionality
    - Improved handling of event log to prevent logging from being stopped if the buffer became full
    - Enhanced support for applications to perform SMP commands
    - After initial discovery has completed, devices are now presented to the OS in order of ascending SAS address with SMP devices sorted last
    - Improved SATA device affiliation behind expanders when devices are moved between two adapters
  
- **Version 1.00 (Released 10/19/2007)**
  - Initial release for the ExpressSAS H380 and H308 Host adapters

### 3. Known Issues/Advisements

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- Refer to the DOS release notes for firmware issues affecting all platforms
- Windows 2000 fails when booting from an H380 adapter, caused by a bug in Windows. A workaround is available. Call for details.

### 1. Affected Products

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Product Name	SKU
ExpressSAS H380 Host Adapter	ESAS-H380-000
ExpressSAS H308 Host Adapter	ESAS-H308-000
ExpressSAS H30F Host Adapter	ESAS-H30F-000

### 2. Contacting ATTO Support

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ATTO Technology, Inc. is renowned for its technical support services. ATTO's goal is to provide you the quickest response possible for your technical support needs, and is available Monday-Friday, 8:00 AM to 8:00 PM EST (except holidays and plant closings).

ATTO Technical Support can be contacted via phone or email:

- Phone: 716.691.1999 ext. 242
- E-Mail: [techsupport@attotech.com](mailto:techsupport@attotech.com)